

IRS1 recombinant protein

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CATALOG # AAA72896	HOST E Coli	APPLICATIONS Western Blot
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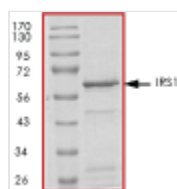
PRODUCT SYNONYMS

IRS1; IRS1 recombinant protein; Insulin Receptor Substrate 1; HIRS-1

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione , 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol
Concentration	0.2 ug/uL (varies by lot)
Sequence Positions	1-355
Sequence Length	8743
Applicable Applications for IRS1 recombinant protein	WB (Western Blot), Kinase Assay
Source Note	Recombinant human IRS1 (1-355) was expressed in E. coli cells using an N-terminal GST tag.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

The purity was determined to be >90% by desitometry.Approx. MW 65kDa.

ADDITIONAL INFORMATION

Related Product Information for IRS1 recombinant protein

Scientific Background: IRS1 is the substrate for the insulin tyrosine kinase receptor and is found in a variety of insulin-responsive cells and tissues. IRS1 protein has no intrinsic enzymatic activity but acts as a docking protein, via the SH2 domains, for mediating the insulin downstream signaling events. IRS1 has been shown to associate with the 14-3-3 family of proteins and this could play a role in the regulation of insulin sensitivity by interrupting the association between the insulin receptor and IRS1 (1). IRS1 may be associated with colorectal cancer and diet and related factors may affect the risk by modifying plasma insulin levels. Thus, the inter-individual variation in insulin signaling mediated by IRS1 may play a plausible role in the development of colorectal cancer (2).

Product Categories/Family for IRS1 recombinant protein	Proteins Substrates ; Signaling Reagents - Protein Substrates
References	1. Ogiwara, T. et al: 14-3-3 protein binds to insulin receptor substrate-1, one of the binding sites of which is in the phosphotyrosine binding domain. J. Biol. Chem. 272: 25267-25274, 1997. 2. Slattery, M.L. et al: Genetic variation in IGF1, IGFBP3, IRS1, IRS2 and risk of breast cancer in women living in outwestern United States. Breast Cancer Res Treat. 2007;

NCBI AND UNIPROT INFORMATION

NCBI GI #	187761322
NCBI GeneID	3667
NCBI Accession #	NP_005535.1
NCBI GenBank Nucleotide #	NM_005544
UniProt Accession #	P35568
Molecular Weight	~65 kDa
NCBI Official Full Name	Homo sapiens insulin receptor substrate 1 (IRS1), mRNA
NCBI Official Synonym Full Names	insulin receptor substrate 1
NCBI Official Symbol	IRS1
NCBI Official Synonym Symbols	HIRS-1
NCBI Protein Information	insulin receptor substrate 1; IRS-1
UniProt Protein Name	Insulin receptor substrate 1
UniProt Gene Name	IRS1
UniProt Synonym Gene Names	IRS-1
UniProt Entry Name	IRS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/irs1-recombinant-protein-e-coli-wb-western-blot-kinase-assay/72896>